

AMENDMENTS

AMENDMENTS TO THE SPECIFICATION

Please amend the Paragraph numbered 12 on Page 4 of the Application as follows:

[0012] Figure 4 shows one preferred embodiment of the arrangement according to the invention, where a heart rate monitor is used as a transmitter and a receiver. In the figure, the runner on the treadmill 51 wears a belt of the heart rate monitor, which serves as a transmitter 52 of a signal 40. The heart rate monitor used can be that of the brand names Polar, Sigma Sport or Cardiosport, for instance, and the transmission frequency of the signal 40 can be 5 kHz +/-10%, for instance. A receiver 42 that is fixedly attached to the treadmill, in this case the receiver part of the heart rate monitor Polar PCBA RX2000 or RMoD1, receives the signal 40. The strength data of the received signal 40 is read at the receiver measurement point or directly from the receiver coil. On the basis of this strength data it is possible to define the distance between the transmitter and the receiver in a known manner. In signal processing, the signal is amplified at an amplifier 43, filtered at a filter 44 and converted from an analog to a digital signal at the Analog to Digital Converter 45. From the distance obtained on the basis of the strength of the signal 40, the microprocessor 46 further determines position data 49 that is conveyed to a computer or a game console 50, and/or modifies the control information 48 to be conveyed to the treadmill control. The treadmill control may comprise the adjustment of the rotation speed of the platform by means of a treadmill motor 53 or the adjustment of the gradient by means of a lifting motor 54. The pulse rate information of the exercising person may simultaneously be included in the described system.

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TU2X-1-1004 AMS

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